

10/565240

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

10/20 Rec'd PCT/PTO 19 JAN 2006

Mordechai DEUTSCH et al

Serial No.: US National Phase of PCT/IL2004/000661

Filed: Herewith

For: IMPROVED MULTIWELL PLATE

Examiner: Not Yet Assigned

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Group Art Unit: Not Yet Assigned

Attorney

Docket: 30008

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Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,



Martin D. Moynihan
Registration No. 40,338

Dated: January 17, 2006

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	US National Phase of PCT/JP2004/000661 10,552,40
				Filing Date	Herewith
				First Named Inventor	Mordechai DEUTSCH et al
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	30008

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-5,395,588	07-7-1995	North Jr. et al.	
	2	US-6,117,612	09-12-2000	Halloran et al.	
	3	US-6,206,672	03-27-2001	Grenda	
	4	US-6,228,437	08-8-2001	Schmidt	
	5	US-6,238,614	05-29-2001	Yang et al.	
	6	US-6,329,195	12-11-2001	Pfaller	
	7	US-6,333,192	12-25-2001	Petitte et al.	
	8	US-6,338,964	01-15-2002	Matanguihan et al.	
	9	US-6,342,384	01-29-2002	Chung et al.	
	10	US-6,344,354	05-5-2002	Webster et al.	
	11	US-6,372,494	04-16-2002	Naughton et al.	
	12	US-6,376,148	04-23-2002	Liu et al.	
	13	US-6,378,527	04-30-2002	Hungerford et al.	
	14	US-6,383,810	07-7-2002	Fike et al.	
	15	US-6,403,369	06-11-2002	Wood	
	16	US-6,410,309	06-25-2002	Barbera- Guillem et al.	
	17	US-6,413,744	02-2-2002	Morris et al.	
	18	US-6,413,746	02-2-2002	Field	
	19	US-6,455,310	09-24-2002	Barbera-Guillem et al.	
	20	US-6,465,000	10-15-2002	Kim	
	21	US-6,465,205	10-15-2002	Hicks, Jr.	
	22	US-6,468,788	10-22-2002	Marotzki	
	23	US-6,479,252	11-12-2002	Barbera-Guillem et al.	
	24	US-6,489,144	03-3-2002	Lau	
	25	US-6,492,148	12-10-2002	van Loon et al.	
	26	US-6,492,163	12-10-2002	Yoo et al.	
	27	US-6,506,598	01-14-2003	Andersen et al.	
	28	US-6,511,430	01-28-2003	Sherar et al.	
	29	US-6,528,286	04-4-2003	Ryll	
	30	US-655,365	07-7-1900	Johnson	
	31	US-6,569,422	05-27-2003	van Loon et al.	
	32	US-6,588,586	08-8-2003	Abasolo et al.	
	33	US-6,589,765	08-8-2003	Choi et al.	
	34	US-6,593,140	07-15-2003	Field	
	35	US-6,610,516	08-26-2003	Andersen et al.	
	36	US-6,627,426	09-30-2003	Biddle et al.	
	37	US-6,635,448	10-21-2003	Bucciarelli et al.	
	38	US-6,642,050	11-14-2003	Goto et al.	
	39	US-6,649,408	11-18-2003	Bailey et al.	
	40	US-6,667,034	12-23-2003	Palsson et al.	
	41	US-6,670,180	12-30-2003	Block	
	42	US-6,670,184	12-30-2003	Chiarello et al.	

10/565240

43	US-6,673,591	06-6-2004	Lau	
44	US-6,686,190	03-3-2004	Lau	
45	US-6,689,594	02-10-2004	Hänni et al.	
46	US-6,692,961	02-17-2004	Judd et al.	
47	US-5,854,684	12-29-1998	Stabile et al.	
48	US-4,894,343	01-16-1990	Tanaka et al.	
49	US-2002/0173033	11-21-2002	Hammerick et al.	
50	US-5,627,045	06-6-1997	Bochner et al.	
51	US-4,308,351	12-29-1981	Leighton et al.	
52	US-2003/0030184	02-13-2003	Kim et al.	
53	US-5,905,031	05-18-1999	Kuylen et al.	
54	US-4,729,949	08-8-1988	Weinreb et al.	
55	US-2003/0032204	02-13-2003	Walt et al.	
56	US-6,645,757	11-11-2003	Okandan et al.	
57	US-5,506,141	09-9-1996	Weinreb et al.	
58	US-2003/0211458	11-13-2003	Sunray et al.	
59	US-5,272,081	12-21-1993	Weinreb	
60	US-2005/0064524	03-24-2005	Deutsch et al.	
61	US-2004/0235143	11-25-2004	Sasaki et al.	
62	US-2003/0189850	09-9-2003	Sasaki et al.	
63	US-2005/0014201	01-20-2005	Deutsch	
64	US-5,428,451	06-27-1995	Lea et al.	
65	US-6,103,479	08-15-2000	Taylor	
66	US-6,377,721	04-23-2002	Walt et al.	
67	US-5,059,266	10-22-1991	Yamane et al.	
68	US-5,204,055	04-20-1993	Sachs et al.	
69	US-6,046,426	04-4-2000	Jeantette et al.	
70	US-6,066,285	05-23-2000	Kumar	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Documents	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	71	PCT WO 99/47922	09-23-1999	Griffith et al.		
	72	PCT WO 01/88176	11-22-2001	Sunray et al.		
	73	PCT WO 2004/077009	09-10-2004	Deutsch		
	74	PCT WO 03/035824	01-1-2003	Deutsch		
	75	PCT WO 98/35223	08-13-1998	Kamentsky et al.		
	76	PCT WO 98/15356	04-16-1998	Gordon		
	77	PCT WO 99/45357	09-10-1999	Walt et al.		
	78	PCT WO 2004/113492	12-29-2004	Deutsch et al.		
	79	PCT WO 01/35071	05-17-2001	Braff et al.		
	80	PCT WO 03/056330	07-10-2003	Lassner et al.		
	81	PCT WO 02/26114	04-4-2002	Bitensky et al.		
	82	PCT WO 03/011451	02-13-2003	Wang et al.		
	83	PCT WO 02/063034	08-15-2002	Huberman et al.		
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				Attorney Docket Number	30008
Sheet	3	Of	4		
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	84	Dolbeare "Fluorescent Staining of Enzymes for Flow Cytometry", Methods Cell Biol., 33(Chap.8): 81-88, 1990.			
	85	Klingel et al. "Flow Cytometric Determination of Serine Proteinase Activities in Living Cells With Rhodamine 110 Substrates", Methods Cell Biol., 41(Chap.29): 449-460, 1994.			
	86	Malin-Berdel et al. "Flow Cytometric Determination of Esterase and Phosphatase Activities and Kinetics in Hematopoietic Cells With Fluorogenic Substrates", Cytometry, 1(3): 222-228, 1980.			
	87	Nooter et al. "On-Line Flow Cytometry. A Versatile Method for Kinetic Measurement", Methods Cell Biol., 41(Chap.32): 509-526, 1994.			
	88	Turek et al. "Leucine Aminopeptidase Activity by Flow Cytometry", Methods Cell Biol., 41(Chap.30): 461-468, 1994.			
	89	Watson et al. "Enzyme Kinetics", Methods Cell Biol., 41: 469-508, 1994.			
	90	Bedner et al. "Enzyme Kinetic Reactions and Fluorochrome Uptake Rates Measured in Individual Cells by Laser Scanning Cytometry", Cytometry, 33(1): 1-9, 1998. Abstract, P.2, Col.1, §4 - Col.2, §1, P.8, Col.2, §2.			
	91	Sunray et al. "Cell Activation Influences Cell Staining Kinetics", Spectrochimica Part A, 53: 1645-1653, 1997.			
	92	Eisenthal et al. "Infection of K562 Cells With Influenza A Virus Increases Their Susceptibility to Natural Killer Lysis", Pathobiology, 65: 331-340, 1997.			
	93	Deutsch et al. "Apparatus for High-Precision Repetitive Sequential Optical Measurement of Living Cells", Cytometry, 16: 214-226, 1994.			
	94	Sunray et al. "Determination of the Michaelis-Menten Constant (Km) of Intracellular Enzymatic Reaction for Individual Live Lymphocytes", Cytometry Supplement, 10: 68-69, & The XX Congress of the International Society for Analytical Cytology, Montpellier, F, 2000.			
	95	Darzynkiewicz et al. "Laser-Scanning Cytometry: A New Instrumentation With Many Applications", Experimental Cell Research, 249(1): 1-12, 1999. Abstract, P.2, Col.2, §4 - P.4, Col.2, §2, P.8, Col.1, §1 - Col.2, §2.			
	96	Sunray et al. "The Trace and Subgrouping of Lymphocyte Activation by Dynamic Fluorescence Intensity and Polarization Measurements", Biochemical and Biophysical Research Communications, 261(3): 712-719, 1999. Abstract, P.713, Col.1, §5, Col.2, §7 - P.714, Col.2, §1.			
	97	Sunray et al. "Determination of Individual Cell Michaelis-Menten Constants", Cytometry, 47(1): 8-16, 2002.			
	98	Dive et al. Cytometry Journal of Society for Analytical Cytology, 8(6): 552-561, 1987. Abstract.			
	99	Koh et al. "Poly(Ethylene Glycol) Hydrogel Microstructures Encapsulating Living Cells", Langmuir, 18(7): 2459-2462, 2002.			
	100	Lansing Taylor et al. "Real-Time Molecular and Cellular Analysis: The New Frontier of Drug Discovery", Current Opinion in Biotechnology, 12: 75-81, 2001.			
	101	Aplin et al. "Protein-Derivatized Glass Coverslips for the Study of Cell-to-Substratum Adhesion", Analytical Biochemistry, 113: 144-148, 1981.			
	102	Burlage et al. "Living Biosensors for the Management and Manipulation of Microbial Consortia", Annual. Rev. Microbiol., 48: 291-309, 1994.			
	103	Mrksich et al. "Using Self-Assembled Monolayers to Understand the Interactions of Man-Made Surfaces With Proteins and Cells", Annual Reviews in Biophysics and			

10/565240
IAP20 Rec'd PCT/PTO 19 JAN 2006

		Biomolecular Structure, 25: 55-78, 1996.	
	104	Singhvi et al. "Engineering Cell Shape and Function", Science, 264: 696-698, 1994.	
	105	Riedel et al. "Arxula Adeninivorans Based Sensor for the Estimation of Bod", Analytical Letters, 31(1): 1-12, 1998.	
	106	Simonian et al. "Microbial Biosensors Based on Potentiometric Detection", Methods in Biotechnology, 6, chapter 17: 237-248, 1998.	
	107	Arikawa et al. "Microbial Biosensors Based on Respiratory Inhibition", Methos in Biotehcnology, 6, chapter 16: 225-235, 1998.	

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